Workers in Munition Plants Are Exposed to TNT Poisoning-But There Are Ways of Warding Off Danger

EAD poisoning has a rival in TNT River. arine, one of the greatest dangers to work- the wein first found was not extensive, an plosive. To the latter many workers are mous Thetford and Coleraine regions revived exposed in its manufacture and in shell hopes for a Canadian asbestos industry which had been more than realized. . . There had no shear the control of the such absorption cannot be prevented alto- generation, and perhaps the present century gether, it can be made so slight that no had it not been for forest fires that swent this

"The Public Health Service of the Treas- ures-my Department has published an article ered form, or is noured into them while olten. In the former method, used only in

for by "The Lancet"

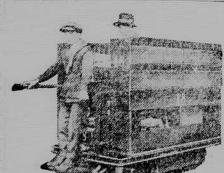
There must therefore be some special factor in 1917 which has been more operative in taking this toll of infant life in London than elsewhere. The factor is not far to seek and can be none other than the annulative action of prolonged mental strain riples automatically insure a large measure of maternal altruism, and so long as the of maternal altruism, and so long as the feature of maternal altruism, and so long as the infant the quality of her milk remains good in the face of real privation such as has been experienced in occupied territory; but there comes a long of the supply of breast milk, and were constructed similar to pigeonholes in that they may be able immediately to put the session of the supply of breast milk, and were constructed similar to pigeonholes in that they may be able immediately to put the

Four to make its round of deliveries and is going on a "Doubtless other factors also come into collections. Sorting of mail matter pro- to be of use.

37. The regularity of the infant's manner eceds while the car is on its route through. "The cannon, life has been affected, sleep impaired, and the plant, for the clerk has no responsition in advance limited constitution." anlimited opportunities of exposure and in- bility concerning the operation of the little Organized effort is ur- truck; that is intrusted to a young man who ently required to combat these evils intellibrate no other duties.

Ently and to mitigate the harm which is "It is estimated that a saving in time and serving to the London infant from deficient labor of no less than 50 per cent has resulted

Metation. The startling fall in the birth from the installation of this novel system, size, which the Registrar General also re-which the Registrar General also re-which displaces the pneumatic tubes and the fords, may be a matter of regret, but is sim-staff of messengers that were needed."



The Postoffice on Wheels From The American Machinist

German Methods of Meeting the Deadly Tanks

disease like exanthematic typhus has been the Germans have recently been exhibthe to increase and multiply. In the abiting a tank in running order in Berlin, and in view of the report that the British Electricity for the Farm when the storage natural and throwing it in the wind when any given numhospital and destruction of body vermin, parently the Germans have succeeded WINDMILLS to generate enough electricity for the sick ber of ampere-hours have been discharged, somewhat in their means of defence.

distaly before the people of Petrograd the following translation of a general Experimenter." Indeed, such plants can tention to the generator.

Medicine Around the World and Back Again

When Forest Fires Were Unwittingly Beneficent

HEER accident, according to a writer in "The Paper Mill," brought about a discovery of Canada's richest asbestos deposits. The account runs as

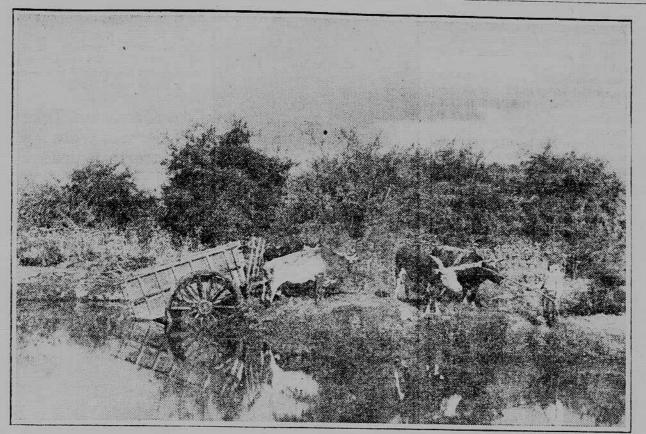
Northern Verment as early as 1824, its pres-ence in Caunda was not suspected until 1861. when it was found in the Province of Quebec about midway between the villages of St. Jo-Indeed, says this mag- amount of money was raised. Unfortunately

loading. It is readily absorbed through to no doubt that these enormously valuable the skin and respiratory tracts. Although deposits would have been lost to the present gether, it can be made so slight that no workers, except, perhaps, those especially susceptible, will have symptoms of chronic poisoning.

region, burned off the undergrowth and denuded the surface, exposing the fibrous rock to view. . . . Nature, in a moment of fury, removed the covering that for centuries

loading processes, of which there are The Spruce Shortage and The compound is either pressed into Aeroplanes

THE value of spruce lumber and how a several months. It is believed, however, a shortage in the commodity is after that two processes have been found recently somewhat of a pest its numbers often may measures feeting America's airplane plans are sug. by which the wood can be dried in kilns somewhat of a pest its numbers often may see there.



"Far From the Madding Crowd"-A Scene in Central Brazil -From The South American, courtesy Clayton S. Cooper.

The Nice, Naughty Muskrat

the open air, which has required gest that it be protected and trapped for Department of Agriculture.

ploy a trapper and hunter to patrol the property both night and day. In narrow waterways barrel traps have proved ef-

the average yield of the 30,000,000 acres The Military Strength of the distractions of the war itself of corn in Misseyri Jone Illinois and By erecting more permanent works inches the yield is thirty-three. In other

Germany Grows Boastful

UNIQUE exhibition began in Berlin A November 1 called the Batik Exhibition. The Batik process, which was discovered in the Dutch Indies, consists of dyeing in designs upon velvet and similar goods, to be left uncolored. The Germans now claim to have developed the process in some remarkable ways, so that this exhibition is described in a boastful way in the press as not only a triumph of the German dye industry, but also as registering further progress in finding ways and means to hold through to the bitter end with the war. It is claimed, for example, that the Germany came to be the accepted order, well worn garments of the German people He traces the slow rebellion of thinkers can be treated "batikally" and made to like Kant, whose scientific investigation look as good as new, besides making them has at length begun to open the eyes of lasts much longer. Beyond that, the further the people. The article, in part, follows: claim is made that the Germans have "Junkerism gathered the economic and poucts for the show.

in the Arduous Task of File-Driving

OT the least important of the occupations of Japanese women is pile- "Thus it appears that Junkerism not or driving. So says William G. Robbins, for- stands for political and economic rule, but merly a junior engineer in the Third Divi- toat it also represents religious tyranny sion in a letter to Milton Kempner, assist- The Kniser's sanctimonious claim of partnerant division engineer, which is published ship with the Almighty is no new thing

Central America

owners of embankments, dams, etc., may words, in this region a half-inch of July this to say on the subject of the military

marticle upon infant mortality in England during war conditions. Recent figland during war conditions. Recent figland during war conditions which are possessed by spruce.

"After being turned out of the mills the
list of household necessity. All Europe
and rocked with the social problem, and
available, and that has been done heretofore in the course of which are possessed by spruce.

"After being turned out of the mills the
strength surpasses—that of her sister republics, but no exact figures are available. Honduras can throw 55,000 into the protected and trapped for Department of Agriculture sugment's notice. Where the animal since the animals will not burrow in soil
strength surpasses—that of her sister republics, but no exact figures are available. Honduras can throw 55,000 into the protected and trapped for Department of Agriculture
ment's notice. Where the animal since the animals will not burrow in soil
strength surpasses—that this time favors the highest
can be doubled. Guatemala's military
is not troublesome, biologists of the United
that fills the hole as fast as they open it.
States Department of Agriculture sugment's notice. Where the animal since the animal since

with an application of wax upon the parts The Kaiser's Ecclesiastical Steam Roller Has Sought to Keep the People in Religious Submission

REMARKABLE article by Louis Wallis in "The Public" sketcher

learned to "batik" wood pulp and give it a litical power of Germany into its hands dursilky finish. According to the reports from ing the Reformation, and employed the ma-Berlin over three hundred German and chinery of the Lutheran churches to control Austrian "artists" had entered their prod- the common people. Theological professors and clergymen were appointed by the Junker attend church and listen to what the clergy In Japan Women Engage had to say. A huge body of Biblical interpretation was constructed which buttressed merely an elaborate attempt to explain eccle

fecting America's airplane plans are suggested by an article in "The New York
Lumber Trade Journal," part of which
a great saving of time in manufacture and
will enable the manufacturers to speed up
to f such timber the demand for it during the
past three years has increased so greatly as

by which the wood can be dried in kilns
without reducing its flexibility. If the
processes prove to be a success it will mean
a great saving of time in manufacturers to speed up
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tion and production the scope of agricultural meteorology is wide. Very few people
to f such timber the demand for it during the
past three years has increased so greatly as

of which was used in the construction of
the farreaching effect of
processes prove to be a success it will mean
a great saving of time in manufacturers to speed up
tion of wire-mesh fences between them and
a great and the Emperor has intion and production the scope of agricultural meteorology is wide. Very few people
wight a heavy weight up to a
certain height and then drop it. The weight
be kept down by trapping, while the sale
of pelts makes such activities profitable.

Unimate and weather on crop distribuwites:

Of heaver of the farreaching effect of
in "The Puone Service Record.

"In "In the function of using a steam hammer the
winhing a rope, lift a heavy weight up to a
certain height and then drop it. The weight
of which was 33,000,000 feet, virtually all
of which was 33,000,000 feet, virtually all
of which was 33,000,000 feet, virtua

Indiana is twenty-three busness an acre, but that with two and one-half to three ("THE SOUTH AMERICAN" (New inches the yield is thirty-three. In other York), in its December issue, has and to fish in the streams. But in the Air Raids and Infant Mortality
THE effect of air raids on the infant mortality rate of London is shown and mortality rate of London is shown to the London is absolutely essential, and all of the course of the common to the property of the most critical in the guard against injuries to their property of the most corn and by muskrats. A more general use of corn are. The period immediately after blors to their property of the surface of the corn and the most critical in the course of the corn and the most critical in the gravel or coarse sand for the surface of the gravel or coarse sand for the gravel or coarse sand for the surface of the gravel or coarse sand for the gravel

> Another Pitfall for the of an accident that would result in the however, and put down the vast rebellion by military force. More than one hundred thou The device consists of an eye-bolt sand of the revolutionists were shaughtered, and the uprising was crushed out in blood.

by a New York inventor and submitted to be fastened from a chain attached to the the Secretary of the Navy, according to bale, It is only while men are being hoisted 66 Hohen": High—"Zoll": Tax—In English, "Big Grafters"

rine to a depth where the pressure of the nected when ore is being handled, so that ward in this period-the Hohenzollerns. The water is so great that the hull of the U- the skip can go into the cradle for dump-boat will be crushed. In addition the de- ing.—Engineering and Mining Journal, vice is expected to disarrange the mechword 'toll,' or 'tax.' The name as a whole is riding angle, and to help locate invisible Luring Back Sunken Ore freely translated into plain English, big "A net of any desired length and width is cover materials sunk in water is insuspended at intervals by short, supporting

from sinking by ponteen heats or raits. A with about 420 tons of sand-cast pig from pay him an indemnity or prepare to light to the float or raft to withstand the drag of the float.

"When a submarine strikes one of the the iron was strewn along the river bottom near Paducah, Ky. It seems that—
"the iron was strewn along the river bottom needs it carries the obstruction forward. As for a distance of 100 feet or more, free of the distance of 100 feet or more, free of the reasonable with the new church and the reasonable with the new church. the impetus of the submarine draws the net barge. The incurance company paid some ings of the peasantry, while the new church taut, causing it to start to drag the pontoon ste,000 to the shippers of the iron, and in organization founded by Martin Luther was appropriated from the very start by the aristaut, causing it to start to drag the pontson rafts, the resistance of the sea anchors pulls out the latches, and the weights are allowed to sink. As the weights when released are aft of the centre of the submarine, they pull the net over the undersea craft so as to totally envelop it, while the weight exerted tends to tilt the submarine and so disarrange its interior mechanism and render it unmanageable.

Ste,000 to the shippers of the iron, and in organization founded by Martin Luther was appropriated from the very start by the arisappropriated from the very start by the arisappropriated from the very appropriated from the very appropriate from the very appropria "As submarines are normally of a weight iron was recovered. In the meantime the smighty, amid the smoke and flame and thun-closely approximated to that of the water price of the iron had gone up appreciably, der of Mount Sinai, in exactly the same way closely approximated to that of the water they displace, they are ill prepared to resist an attack of this sort, especially as the crew of the submarine cannot locate submerged needs nor determine the position of the vessel itself while the periscope is submerged."

Solution of the vessel itself while the periscope is submerged. Thus the insurance company realized \$4,000. founded on the same psychological principle of unquestioning submission to authority.



German "Sub".

net is to entrap and sink the subma-course, so placed as to be easily discon-estates in Brandenburg began to come for anism of the submarine by affecting its

suspended at intervals by short, supporting lines. Heavy weights are attached to the lines, and these weights are in turn kept from sinking by pontoon floats or rafts. A sea anchor of conventional form is attached which was sunk in the Tennessee River "Unless we take into account the foregoing to the float or raft to withstend the drag of

War Taps the Resources of waterproof type." Color Photography

C OLOR photography, as yet by no means perfected, is nevertheless be-"Hand grenades, employed one at a time, are useless. It is necessary to employ a consentrated charge several evinders grouped around a central grenade, and throw it under the tank; but this is not easy to do.

"Light trench cannon (minneyargar) are

"Hand grenades, employed one at a time, about 30 degrees only of the circle when the subject to a door against the wind, there being means perfected, is nevertheless being used by the British for military purposes, says "The Aeroplane" (London).

A FACIAL windshield for motor while the investigation of the Bible ing used by the British for military purposes, says "The Aeroplane" (London).

A FACIAL windshield for motor able and brilliant results, the work has been permitted to go forward only in an academic pewer wheel is the automatic controllability.

Bellow Lights' efficacious, when they are fired from a feeble angle; good results have been obtained by the fire of isolated pieces.

The new vacuum, on the implied condition that procedure, which is in the form of a head screen with "window lights" in the front, wind in case of high wind velocity to that that during the nest year or two in the processors may talk among them. wind in case of high wind velocity so that that during the past year or two impor-HOW the Germans oppose the tank of food and other necessaries, as well as the withdrawal of skilled medical and little reply in this country. However, and the state of place in that the fire of isolated pieces.

"In general, the tactics to employ against the motion of the wheel is kept from runtianks must be made the object of theories and protects the state of place in that the motion of the wheel is kept from runtianks must be made the object of theories and protects the state of place in that the motion of the wheel is kept from runtianks must be made the object of theories and place in that the motion of the wheel is kept from runtianks must be made the object of theories and place in that the motion of the wheel is kept from runtianks must be made the object of theories and place in that the motion of the wheel is kept from runtianks must be made the object of theories and place in that the motion of the wheel is kept from runtianks must be made the object of theories and place in that the motion of the wheel is kept from runtianks must be made the object of theories and place in the motion of the wheel is kept from runtianks must be made the object of theories and place in the motion of the wheel is kept from runtianks must be made the object of theories and place in the motion of the wheel is kept from runtianks must be made the object of theories and place in the motion of the wheel is kept from runtianks must be made the object of theories and place in the motion of the wheel is kept from runtianks must be made the object of theories and place in the motion of the wheel is kept from runtianks must be made the object of theories and place in the motion of the wheel is kept from runtianks must be made the object of theories and place in the motion of the wheel is kept from runtianks must be made the object of theories and place in the motion of the wheel is kept from runtianks must be made the object of the motion of the wheel is kept from runtianks must be made the object of the motion of the wheel is k licly discussed at present.

A Simple Safety Device for Skips Handling Men

A Face Shield With "Window Lights"



"While scientific investigation of the Bible ity of polysyllable jargon, but their views must not be aired in church; and the clergy must faithfully teach the orthodox Junker theory of the Bible. "The rank and file of the German people

know nothing about what has been taking place in German theological seminaries. Even the professors of Biblical science themselves, compelled as they are to work in an atmos-phere of aristocratic distrust and inter-In Hoising or lowering men at the mines of the Mogollon Mines Com- suit. "The front portion projects in the problem. The impression has gone out that ference, have not succeeded in solving their

of the sexes entailed by the war. But the work to do which will leave scant time for

THAT typhus should be reported on feminds one that typhus has long been prevalent, mildly at least, in Petrograd. Now, however, with the government disoranized, refugees crowding in, and a gen-Russia, naturally typhus will come back, concludes this journal. Yet it need not With sanitation typhus fever gradually disappeared from Britain and more adand particularly in Petrograd, where pertotal and comentic hygiene is little prac-When personal uncleanliness, infestion by lice, overcrowding, and other in anitary conditions are aggravated by short-

There is, therefore, the dismal prospect

Typhus in Petrograd

the increase in Petrograd is not sur-Prising to "The Lancet" (London), which tral breakdown in sanitation agencies of tanced countries; practically, exanthematic typius in England may be said to be an extent disease. But it is otherwise in Russia, to of food and other necessaries, as well as ace of a competent and responsible health. present epidemic will probably continue

the Scientists and New Inventions 10se 16 per 1.000 in London, against 6 for A Postoffice on Wheels of from 13 to 1612 feet and a depth of at

Doint at which mental strain results in the on both sides a number of compartments in the advanced zone of the battleneld so the supply of breast milk, and were constructed similar to pigeonboles in that they may be able immediately to put the the experience of weifare centres in a part a small postoffice. At one end of the vehicle tanks out of action by direct hits. Every of London hitherto more exposed than others a sorting table was installed, and a space that which hits the mark kills several men to the strain of acrial warfare has shown a was left under the shelves to receive large of the crew and often sets fire to the tank. Serious diminution in the number of infants packages.

Welly breast-fed up to the normal age of the crew and often sets fire to the tank. The artillers sections which are held in the country of the crew and often sets fire to the tank. The artillers sections which are held in the country of the crew and often sets of the front do not know what the country of the crew and often sets of the front do not know what the country of the crew and of the crew and often sets of the crew and often sets of the crew and often sets of the tank.

far in advance; thus the enemy is not able

"The commander of the front line troops hould be responsible for the placing of antishould be responsible for the placing of anti-tank cannon. Pieces mounted on auto trucks are very useful if the roads are good. "Infantry: The line of buttle must not be spened, except to allow intact tanks to pass:

he troops may seek cover, but they would of fall back. It is necessary that the tanks should be put out of action back of the line. The main thing is to repulse the enemy infantry. Several posts should be detached chind the front for the defence against the

"Armament: The most efficacious weapor against the tanks is the armor-piercing bullet. It is feared by the crews of the tanks, be-cause it pierces the armor and produces at

to fire to the fuel reservoir. The best method of attacking a tank is the rear, because it is not easy for its crew to fire from behind, and because the __

This windmill generates enough electricity to supply light and power to a large group of build-

-From The Electrical Experimenter

rear is the part least protected. Street righting against the tanks is very favorable to the infantry; the troops shelter themselves in the houses and let the tanks pass, and then spen lire with machine runs and rifles from close range.

unnecessary wear and strain "The automatic means for stopping the mill when the storage batteries are charged and

tricity for a farm, or even for a small municipality, are now in successful operation according to the plant once a year, distilled or rain Some idea of these schemes is given in operation, according to "The Electrical water for the batteries and reasonable at-

A NET device to catch and sink subma- attached to the under side of the skip The aristocracy was everywhere victorious has been made and patented near the bale, through which a hook can

and World." The purpose of that the device is used, as the chain is, of "One very quarrelsome Junker family with subs. Briefly the story runs thus:

pany, formerly the Ernestine Mines, Mo- form of a wedge, its sides being fitted with they are busily engaged in the destruction of the following translation of a general through which the generates.

It is suffering to many of them, with a poportion of fatal results, from a pessing preventable if the following translation of a general through which the generates.

Experimenter." Indeed, such plants can be made to generate hundreds of horse gollon, N. M., a safety attachment is gollon, N. M. a safet